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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,630	05/01/2006	Christophe Colignon	LAV0313155	3818
<sup>29980</sup> NICOLAS E. S	7590 04/10/2007 SECKEL	EXAMINER		
Patent Attorney	1	TRAN, BINH Q		
1250 Connecticut Avenue, NW Suite 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			3748	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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`	Application No.	Applicant(s)				
	10/595,630	COLIGNON, CHRISTOPHE				
Office Action Summary	Examiner	Art Unit				
	BINH Q. TRAN	3748				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	:					
2a) This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.	·				
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 01 May 2006 is/are: a)	$\square$ accepted or b) $\boxtimes$ objected to $\square$	by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:						
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal f					
Paper No(s)/Mail Date <u>05/01/2006</u> .	6) Other:					

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## **DETAILED ACTION**

Receipt and entry of Applicant's Preliminary Amendment dated May 01, 2006 is acknowledged.

## **Drawings**

The drawings are objected to because the flow chart in Figures 1-2 have not been described in details. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-7 are rejected under 35 U.S.C. 102 (b) as being anticipated by Tonetti et al. (Tonetti) (Patent Number 6,666,020).

Regarding claim 1, Tonetti discloses a system for providing assistance in the regeneration of depollution means (e.g. 35, 36, 37) associated with oxidation catalyst-forming means, the means being integrated in an exhaust line, of a motor vehicle diesel engine (1) and in which the engine is associated with common manifold means for feeding the cylinders of the engine with fuel, and being adapted at constant torque to implement a strategy of regeneration by injecting

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fuel into the cylinders in at least one post-injection, comprising: means for (9) detecting a regeneration request and thus a request for post-injection (e.g. see col. 7, lines 12-40); means for detecting a period in which the engine is idling (e.g. see col. 7, lines 12-40); means for acquiring the temperature (43, 44) downstream from the catalyst-forming means; means for determining a maximum quantity of fuel to be injected during post-injections while the engine is idling, on the basis of said temperature; and reduction means for progressively reducing the or each post-injection as soon as the quantity of fuel that has been injected reaches the predetermined maximum quantity (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

Regarding claim 2, Tonetti further discloses that wherein the reduction means are adapted to reduce the or each post-injection in application of a calibratable slope (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

Regarding claim 3, Tonetti further discloses that wherein the depollution means comprise a particle filter (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

Regarding claim 4, Tonetti further discloses that wherein the depollution means comprise a NOx trap (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

Regarding claim 5, Tonetti further discloses that wherein the fuel includes an additive for becoming deposited together with the particles with which it is mixed on the depollution means in order to facilitate regeneration thereof (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

Regarding claim 6, Tonetti further discloses that wherein the fuel includes an additive forming a NOx trap (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

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Regarding claim 7, Tonetti further discloses that wherein the engine is associated with a turbocharger (e.g. See col. 6, lines 40-67; col. 7, lines 1-67; col. 8, lines 1-65).

## Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Gabe et al. (Pat. No. 6802180), Nishimura et al. (Pat. No. 7021050), Onodera et al. (Pat. No. 6966179), Yahata et al. (Pat. No. 6969413), and Katoh et al. (Pat. No. 6289672) all discloses an exhaust gas purification for use with an internal combustion engine.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865.

The examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

March 31, 2007

Binh Q. Tran

Patent Examiner

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